

Appl. No. 10/632,082
Response dated: July 14, 2006
Reply to Office action of May 5, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

1. (Currently Amended) A lamp assembly comprising:
at least two lamps, each of the lamps including:
a lamp body including a fluorescent layer formed on an inner surface of the lamp body and a discharge gas disposed in the lamp body;
a first electrode for providing the lamp body with a first discharge voltage; and
a second electrode for providing the lamp body with a second discharge voltage;
a first lamp holder having a pipe-shape, a first end portion of the lamp being inserted into the pipe-shape to be fastened to the first lamp holder;
a first board that makes contact with the first lamp holder, the first board having a flat plate shape and being coupled to the first electrode to provide the first electrode with the first discharge voltage, the first electrode extending through the first board to an opposite surface thereof; and
a first connector installed on the first board to electrically connect the first board to an inverter that generates the first discharge voltage.
2. (Original) The lamp assembly of claim 1, wherein the first board comprises:
a first insulated body;
at least one first conductive pattern electrically connected to the first electrode of each of the lamps; and
at least two first through-holes formed on the first insulated body, each of the first through-holes receiving the first electrode of each of the lamps.
3. (Previously Presented) The lamp assembly of claim 2, further comprising:
a first terminal, coupled to the first connector to receive the first discharge voltage from the inverter and provide the first discharge voltage to the first connector.

Appl. No. 10/632,082
Response dated: July 14, 2006
Reply to Office action of May 5, 2006

4. (Previously Presented) The lamp assembly of claim 3, wherein the first connector is installed on the first conductive pattern of the first board, and electrically connects the first conductive pattern of the first board to the inverter through the first terminal.

5. (Previously Presented) The lamp assembly of claim 2, wherein the first electrode received in each of the first through-holes and the first conductive pattern are soldered with each other and electrically connected to each other.

6. (Previously Presented) The lamp assembly of claim 1, wherein the first lamp holder comprises rubber.

7. (Original) The lamp assembly of claim 1, further comprising a second board, coupled to the second electrode, for providing the second electrode with the second discharge voltage.

8. (Original) The lamp assembly of claim 7, wherein the second board comprises:
a second insulated body;
at least one second conductive pattern electrically connected to the second electrode of each of the lamps; and
at least two second through-holes formed on the second insulated body, each of the second through-holes receiving the second electrode of each of the lamps.

9. (Previously Presented) The lamp assembly of claim 8, further comprising:
a second connector installed on the second conductive pattern; and
a second terminal, coupled to the second connector to receive the second discharge voltage from the inverter and provide the second discharge voltage to the second connector.

10. (Previously Presented) The lamp assembly of claim 9, wherein the second connector electrically connects the second conductive pattern of the second board to the inverter through the second terminal.

Appl. No. 10/632,082
Response dated: July 14, 2006
Reply to Office action of May 5, 2006

11. (Previously Presented) The lamp assembly of claim 8, wherein the second electrode received in each of the second through-holes and the second conductive pattern are soldered with each other and electrically connected to each other.

12. (Previously Presented) The lamp assembly of claim 7, further comprising a second lamp holder having a pipe-shape, a second end portion of the lamp being inserted into the pipe-shape to be fastened to the second lamp holder, the second lamp holder comprising rubber.

13. (Original) The lamp assembly of claim 1, wherein the number of the lamps is four.

14. (Withdrawn) A light supplying apparatus comprising:

a receiving container including a bottom face, a first side wall, a second side wall facing the first side wall, a third sidewall and a fourth sidewall facing the third side wall, each of the sidewalls being extended from an edge of the bottom face to form a receiving space;

first and second lamp assembly-fixing members disposed on the bottom face of the receiving container, the first lamp assembly-fixing member being adjacent to the first sidewall, the second lamp assembly-fixing member being adjacent to the second sidewall, the first and second lamp assembly-fixing members having a bar shape, and first and second recesses being formed on upper faces of the first and second lamp assembly-fixing members, the upper faces being opposite to the bottom face of the receiving container;

a reflection member partially inserted into a slot of the first and second lamp assembly-fixing members and being opposite to the bottom face of the receiving container;

a lamp assembly, including:

first and second boards, the first and second boards being inserted into the first and second recesses of the first and second lamp assembly-fixing members, respectively; and

a lamp having first and second electrodes, the first and second electrodes being connected with the first and second boards, respectively; and

first and second insulated members for covering the first and second lamp assembly-fixing members, respectively, and for insulating the first and second boards.

Appl. No. 10/632,082
Response dated: July 14, 2006
Reply to Office action of May 5, 2006

15. (Withdrawn) The light supplying apparatus of claim 14, further comprising first and second optical sheet-fixing members disposed on the bottom face of the receiving container, the first optical sheet-fixing member being adjacent to the third sidewall, the second optical sheet-fixing member being adjacent to the fourth sidewall, the first and second optical sheet-fixing members having a bar shape.

16. (Withdrawn) The light supplying apparatus of claim 15, wherein each of the first and second optical sheet-fixing members has a first stepped portion, and the first stepped portion is extended in a longitudinal direction of each of the first and second optical sheet-fixing members, to receive at least one optical sheet.

17. (Withdrawn) The light supplying apparatus of claim 14, wherein a plurality of engaging holes is formed on the first sidewall, the second sidewall, and the first and second lamp assembly-fixing members.

18. (Withdrawn) The light supplying apparatus of claim 14, wherein each of the first and second lamp assembly-fixing members is engaged with the reflection member by a screw.

19. (Withdrawn) The light supplying apparatus of claim 14, further comprising first and second connectors, installed at the first and second boards, for receiving a first discharge voltage and a second discharge voltage, respectively.

20. (Withdrawn) The light supplying apparatus of claim 19, wherein a plurality of openings is formed on portions of the bottom face and the first and second lamp assembly-fixing members corresponding to the first and second connectors, and wherein the lamp further includes a first terminal and a second terminal passing through the openings to be connected to the first and second connectors.

Appl. No. 10/632,082
Response dated: July 14, 2006
Reply to Office action of May 5, 2006

21. (Withdrawn) The light supplying apparatus of claim 14, wherein a second stepped portion is formed on an upper surface of each of the first and second insulated members in a longitudinal direction of each of the first and second insulated members to receive at least one optical sheet.

22. (Withdrawn) A liquid crystal display device comprising:
a light supplying member, including:
a lamp assembly for generating a first light; and
a receiving container having a bottom face for receiving the lamp assembly, and a plurality of sidewalls;
a light distribution-changing member, including:
an optical sheet for changing optical distribution of the first light to produce a second light;
a first optical sheet-fixing member for receiving an edge of a bottom face of the optical sheet;
a second optical sheet-fixing member having first and second faces, the first face pressing an edge of an upper face of the optical sheet, and the second face being bent down to be connected one of the sidewalls of the receiving container; and
a first engaging member for engaging the first optical sheet-fixing member with the second optical sheet-fixing member;
a second engaging member for engaging one of the sidewalls of the receiving container with the second face of the second optical sheet-fixing member;
a display unit, including:
a liquid crystal display panel, disposed on the first face of the second optical sheet-fixing member to be opposite to the optical sheet, for changing the second light into a third light having image information; and
a fixing member for fixing the liquid crystal display panel, the fixing member having a third face and a fourth face, the third face pressing an edge of the liquid crystal display panel, and the fourth face being bent to be connected to one of the sidewalls of the receiving container;

Appl. No. 10/632,082
Response dated: July 14, 2006
Reply to Office action of May 5, 2006

a third engaging member for engaging the first face of the second optical sheet-fixing member with the third face of the fixing member; and

a fourth engaging member for engaging one of the sidewalls of the receiving container, with the second face of the second optical sheet-fixing member and the fourth face of the fixing member.

23. (Withdrawn) The liquid crystal display device of claim 22, wherein the first engaging member comprises at least one first through-hole and a first screw, the first through-hole penetrating the first and second optical sheet-fixing members, and the first screw being engaged with the first through-hole.

24. (Withdrawn) The liquid crystal display device of claim 22, wherein the second engaging member comprises a second through-hole and a second screw, the second through-hole penetrating one of the sidewalls of the receiving container and the second face of the second optical sheet-fixing member, and the second screw being engaged with the second through-hole.

25. (Withdrawn) The liquid crystal display device of claim 22, wherein the third engaging member comprises a third through-hole and a third screw, the third through-hole penetrating the first face of the second optical sheet-fixing member and the third face of the fixing member, and the third screw being engaged with the third through-hole.

26. (Withdrawn) The liquid crystal display device of claim 22, wherein the fourth engaging member comprises a fourth through-hole and a fourth screw, the fourth through-hole penetrating one of the sidewalls of the receiving container, the second face of the second optical sheet-fixing member and the fourth face of the fixing member, and the fourth screw being engaged with the fourth through-hole.

27. (Withdrawn) The liquid crystal display device of claim 22, wherein an opening is formed on a portion of the fourth face of the fixing member to expose the second engaging member, and the second engaging member passes through the opening.

Appl. No. 10/632,082
Response dated: July 14, 2006
Reply to Office action of May 5, 2006

28. (Withdrawn) The liquid crystal display device of claim 22, wherein the optical sheet comprises a prism sheet and a diffusion sheet, the prism sheet being adjacent to the liquid crystal display panel, the diffusion sheet being adjacent to the lamp assembly.

29. (Currently Amended) A lamp assembly comprising:
at least two lamps, each of the lamps including:
a lamp body including a fluorescent layer formed on an inner surface of the lamp body and a discharge gas disposed in the lamp body;
a first electrode for providing the lamp body with a first discharge voltage; and
a second electrode for providing the lamp body with a second discharge voltage;
a first lamp holder having a pipe-shape, a first end portion of the lamp being inserted into the pipe-shape to be fastened to the first lamp holder;
a first board that makes contact with the first lamp holder and is electrically coupled to the first electrode such that the first end portion of the lamp body is spaced apart from the first board, the first board including:
an insulated body;
at least one conductive pattern formed on the insulated body and electrically connected to the first electrode of each of the lamps; and
at least two through-holes formed on the insulated body, each of the through-holes receiving the first electrode therethrough of each of the lamps; and
a connector installed on the conductive pattern to electrically connect the first board to an inverter that generates the first discharge voltage.

30. (Previously Presented) The lamp assembly of claim 29, further comprising:
a terminal coupled to the connector to receive the first discharge voltage from the inverter and provide the first discharge voltage to the connector.

31. (Previously Presented) The lamp assembly of claim 30, wherein the first connector electrically connects the conductive pattern of the first board to the inverter through the terminal.

Appl. No. 10/632,082
Response dated: July 14, 2006
Reply to Office action of May 3, 2006

32. (Previously Presented) The lamp assembly of claim 29, wherein the first electrode received in each of the through-holes and the conductive pattern are soldered with each other and electrically connected to each other.

33. (Previously Presented) The lamp assembly of claim 29, wherein the first lamp holder comprises rubber.

34. (Previously Presented) The lamp assembly of claim 29, further comprising a second board coupled to the second electrode and a second lamp holder, the second board and the second lamp holder having identical shape with the first board and the first lamp holder, respectively.

35. (Currently Amended) The lamp assembly of claim 1, wherein the first board is disposed such that a major planar surface of the first board is substantially perpendicular to a longitudinal direction of each of the lamps.

36. (New) The lamp assembly of claim 1, wherein the first board is intermediate the first lamp holder and a terminal end of the first electrode.